

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer readable~~recording~~ medium having a data structure for managing reproduction of at least multiple reproduction path video data recorded on the computer readable~~recording~~ medium, comprising:

at least one navigation area storing navigation management information for managing reproduction of the multiple reproduction path video data recorded on the recording medium, said at least one navigation area having angle change ~~recording~~ information corresponding to each of a plurality of video data blocks, wherein

said angle change information corresponding to each of a plurality of video data blocks indicates whether an angle change is permitted and not permitted, and

the angle change information indicates where an angle change is permitted and not permitted in the corresponding video data blocks.

2. (Currently Amended) The computer readable~~recording~~ medium as recited in claim 1 wherein the navigation management information includes an entry point map.

3. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation management information includes an entry point in a video stream to a corresponding one of said plurality of video data blocks.

4. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation management information includes a presentation time stamp start point in a video stream to a corresponding one of said plurality of video data blocks.

5. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation management information includes source packet identification information for a corresponding one of said plurality of video data blocks.
6. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation information includes an entry point in a video stream to a corresponding one of said plurality of video data blocks.
7. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation information includes video stream type information for a corresponding one of said plurality of video data blocks.
8. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation information includes I-picture offset information pointing to an address of a last I-picture contained in a corresponding one of said plurality of video data blocks.
9. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said navigation information includes an entry point in a video stream to a corresponding one of said plurality of video data blocks, a presentation time stamp start point in a video stream to a corresponding one of said plurality of video data blocks, a source packet number a video stream to a corresponding one of said plurality of video data blocks, an entry point in a video stream to a corresponding one of said plurality of video data blocks, video stream type information to a corresponding one of said plurality of video data blocks, and an I-picture offset information pointing to an address of a last I-picture contained in a corresponding one of said plurality of video data

blocks.

10. (Canceled)

11. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said angle change ~~recording~~-information corresponding to each of a plurality of video data blocks includes angle change point information.

12. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said angle change ~~recording~~-information corresponding to each of a plurality of video data blocks includes the address of the last interleaved video unit in the corresponding video data block.

13. (Canceled)

14. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein said multiple reproduction path video data are recorded in the unit of angle block which is referred by angle change ~~recording~~-information.

15. (Currently Amended) The computer readable~~recording~~ medium of claim 14, wherein data for each reproduction path data are recorded as one or more angle blocks and the angle blocks are interleaved.

16. (Currently Amended) A method of recording a data structure for managing reproduction of at least multiple reproduction path video data on a recording medium, the steps comprising:

recording navigation management information for managing reproduction of the multiple reproduction path video data in at least one navigation area of the recording medium, said at least one navigation area having a plurality of angle change ~~recording~~ information corresponding to each of a plurality of data blocks, wherein

said angle change information corresponding to each of a plurality of video data blocks indicates whether an angle change is permitted and not permitted, and

the angle change information indicates where an angle change is permitted and not permitted in the corresponding video data blocks.

17. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least multiple reproduction path video data on a recording medium, the steps comprising:

reproducing navigation management information for managing reproduction of the multiple reproduction path video data from at least one navigation area of the recording medium, said at least one navigation area having a plurality of angle change ~~recording~~ information corresponding to each of a plurality of data blocks, wherein

said angle change information corresponding to each of a plurality of video data blocks indicates whether an angle change is permitted and not permitted, and

the angle change information indicates where an angle change is permitted and not permitted in the corresponding video data blocks.

18. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least multiple reproduction path video data recorded on a recording medium, comprising:

~~a driver for driving an optical recordingreproducing device~~ configured to record data on the recording medium;

a controller configured to control~~for controlling the driver~~ the optical recording device to record navigation management information for managing reproduction of the multiple reproduction path video data in at least one navigation area of the recording medium, said at least one navigation area having a plurality of angle change ~~recording~~ information corresponding to each of a plurality of video data blocks, wherein

said angle change information corresponding to each of a plurality of video data blocks indicates whether an angle change is permitted and not permitted, and

the angle change information indicates where an angle change is permitted and not permitted in the corresponding video data blocks.

19. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least multiple reproduction path video data recorded on a recording medium, comprising:

~~a driver for driving an optical reproducing device~~ configured to reproduce data recorded on the recording medium;

a controller configured to control~~for controlling the driver~~ the optical reproducing device to reproduce navigation management information for managing reproduction of the multiple reproduction path video data from at least one navigation area of the recording medium; and the controller configured to control the optical reproducing device~~for controlling the driver~~ to execute an angle change only upon detecting an angle change authorization in the navigation data, wherein

said navigation data includes angle change information corresponding to each of a plurality of video data blocks,

said angle change information corresponding to each of a plurality of video data blocks indicates whether an angle change is permitted and not permitted, and

the angle change information indicates where an angle change is permitted and not permitted in the corresponding video data blocks.

20. (New) The apparatus of claim 18, wherein the navigation management information includes an entry point map.

21. (New) The apparatus of claim 18, wherein said navigation management information includes an entry point in a video stream to a corresponding one of said plurality of video data blocks.

22. (New) The apparatus of claim 18, wherein said navigation management information includes a presentation time stamp start point in a video stream to a corresponding one of said plurality of video data blocks.

23. (New) The apparatus of claim 19, wherein the navigation management information includes an entry point map.

24. (New) The apparatus of claim 19, wherein said navigation management information includes an entry point in a video stream to a corresponding one of said plurality of video data blocks.

25. (New) The apparatus of claim 19, wherein said navigation management information includes a presentation time stamp start point in a video stream to a corresponding one of said plurality of video data blocks.